

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0652.167002/JUK/JCI	APPLICATION NO. 10/773,302
		FIRST NAMED INVENTOR Jenuwein et al.	
		FILING DATE February 9, 2004	ART UNIT 1651

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
✓	AA1	5,972,608	10/26/1999	Peterson et al.	435	6	08/27/1997
✓ NOV 23 2004	AB1	6,555,329 B2	04/29/2003	Jenuwein et al.	435	15	06/08/2001
✓	AC1	6,689,583 B1	02/10/2004	Jenuwein et al.	435	69,1	06/09/2000
✓	AD1	2002/0039776 A1	04/04/2002	Jenuwein et al.	435	193	06/08/2001
✓	AE1	2002/0164620 A1	11/07/2002	Peters et al.	435	6	01/22/2002
✓	AF1	2003/0087368 A1	05/08/2003	Maupin-Furlow et al.	435	69,1	04/30/2002
✓	AG1	2003/0104599 A1	06/05/2003	Jenuwein et al	435	193	11/25/2002
✓	AH1	2003/0157532 A1	08/21/2003	Jenuwein et al	435	6	12/20/2002
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
✓	AL1	WO 95/15749	06/15/1995	WIPO WO	—	—	Yes
✓	AM1	DE 195 16 776	11/14/1996	Germany	—	—	No
✓	AN1	WO 98/27994	07/02/1998	WIPO WO	—	—	Yes
✓	AO1	WO 98/49190	11/05/1998	WIPO WO	—	—	No
✓	AP1	WO 00/48627	08/24/2000	WIPO WO	—	—	Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

✓	AR	1	Aagaard, L., et al., "Functional mammalian homologues of the <i>Drosophila</i> PEV-modifier <i>Su(var)3-9</i> encode centromere-associated proteins which complex with the heterochromatin component M31," <i>EMBO J.</i> 18:1923-1938, Oxford University Press (April 1999)
✓	AS	1	Aagaard, L., et al., "Mitotic phosphorylation of SUV39H1, a novel component of active centromeres, coincides with transient accumulation at mammalian centromeres," <i>J. Cell Sci.</i> 113:817-829, The Company of Biologists Ltd. (March 2000; Published on the WWW on 14 February 2000)
✓	AT	1	Aasland, R. and Stewart, A.F., "The chromo shadow domain, a second chromo domain in heterochromatin-binding protein 1, HP1," <i>Nucleic Acids Res.</i> 23:3168-3173, Oxford University Press (August 1995)

EXAMINER

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✓	AL2	EP 1 227 160 A1	07/31/2002	WIPO EP	—	—	Yes
	AM						No
	AN						Yes
	AO						No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
✓	AR	2	Adams, B., et al., "Pax-5 encodes the transcription factor BSAP and is expressed in B lymphocytes, the developing CNS, and adult testis," <i>Genes & Dev.</i> 6:1589-1607, Cold Spring Harbor Laboratory Press (1992)			
✓	AS	2	Adams, R.R., et al., "INCENP binds the Aurora-related kinase AIRK2 and is required to target it to chromosomes, the central spindle and cleavage furrow," <i>Curr. Biol.</i> 10:1075-1078, Elsevier Science Ltd. (September 2000)			
✓	AT	2	Ainsztein, A.M., et al., "INCENP Centromere and Spindle Targeting: Identification of Essential Conserved Motifs and Involvement of Heterochromatin Protein HP1," <i>J. Cell Biol.</i> 143:1763-1774, The Rockefeller University Press (December 1998)			

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	3	Alkema, M.J., et al., "Transformation of axial skeleton due to overexpression of bmi-1 in transgenic mice," <i>Nature</i> 374:724-727, Nature Publishing Group (April 1995)				
	AS	3	Allshire, R.C., et al., "Mutations derepressing silent centromeric domains in fission yeast disrupt chromosome segregation," <i>Genes & Dev.</i> 9:218-233, Cold Spring Harbor Laboratory Press (January 1995)				
	AT	3	Altschul, S.F., et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucl. Acids Res.</i> 25:3389-3402, Oxford University Press (September 1997)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>J</i>	AR	4	Ambrose, W.P., et al., "Detection System for Reaction-Rate Analysis in a Low-Volume Proteinase-Inhibition Assay," <i>Anal. Biochem.</i> 263:150-157, Academic Press (1998)				
<i>L</i>	AS	4	Baksa, K., et al., "Mutations in the Protein Phosphatase 1 Gene at 87B Can Differentially Affect Suppression of Position-Effect Variegation and Mitosis in <i>Drosophila melanogaster</i> ," <i>Genet.</i> 135:117-125, The Genetics Society of America (1993)				
<i>N</i>	AT	4	Ball, L.J., et al., "Structure of the chromatin binding (chromo) domain from mouse modifier protein 1," <i>EMBO J.</i> 16:2473-2481, Oxford University Press (May 1997)				

EXAMINER	<i>J. Smith</i>	DATE CONSIDERED	<i>9/6/06</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
<i>J. Stuck</i>	AR	5	Bannister, A.J., et al., "Selective recognition of methylated lysine 9 on histone H3 by the HP1 chromo domain," <i>Nature</i> 410:120-124, Nature Publishing Group (March 2001)			
<i>J. Stuck</i>	AS	5	Barrett, A.J. and Kirschke, H., "Cathepsin B, Cathepsin H, and Cathepsin L," <i>Methods Enzym.</i> 80:535-561, Academic Press (1981)			
<i>J. Stuck</i>	AT	5	Bassett, D.E., Jr., et al., "Comparative genomics, genome cross-referencing and XREFdb," <i>Trends Genet.</i> 11:372-373, Elsevier Science Ltd. (September 1995)			

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	6	Baudat, F., et al., "Chromosome Synapsis Defects and Sexually Dimorphic Meiotic Progression in Mice Lacking Spo11" Mol. Cell. 6:989-998, Cell Press (November 2000)				
<i>✓</i>	AS	6	Bernard, P., et al., "Fission Yeast Bub1 is a Mitotic Centromere Protein Essential for the Spindle Checkpoint and the Preservation of Correct Ploidy through Mitosis," J. Cell Biol. 143:1775-1787, The Rockefeller University Press (December 1998)				
<i>✓</i>	AT	6	Boulianne, G.L., et al., "Production of functional chimaeric mouse/human antibody," Nature 312:643-646, Macmillan Magazines Ltd. (1984)				

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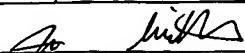
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	Brown, A.M., et al., "Biotinylated and Cysteine-Modified Peptides as Useful Reagents for Studying the Inhibition of Cathepsin G," <i>Anal. Biochem.</i> 217:139-147, Academic Press, Inc. (February 1994)
	AS	7	Brunk, B.P., et al., "Drosophila genes Posterior Sex Combs and Suppressor two of zeste encode proteins with homology to the murine bmi-1 oncogene," <i>Nature</i> 353:351-353, Nature Publishing Group (1991)
	AT	7	Buck, S.W. and Shore, D., "Action of a RAP1 carboxy-terminal silencing domain reveals an underlying competition between HMR and telomeres in yeast," <i>Genes & Dev.</i> 9:370-384, Cold Spring Harbor Laboratory Press (February 1995)

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	AR	8	Bunick, D., et al., "Transcription of the testis-specific mouse protamine 2 gene in a homologous <i>in vitro</i> transcription system," <i>Proc. Natl. Acad. Sci. USA</i> , 87: 891-895, National Academy of Sciences (1990)				
	AS	8	Buonomo, S.B.C., et al., "Disjunction of Homologous Chromosomes in Meiosis I Depends on Proteolytic Cleavage of the Meiotic Cohesin Rec8 by Separin," <i>Cell</i> 103:387-398, Cell Press (October 2000)				
	AT	8	Burgoyne, P.S., "Genetic Homology and Crossing Over in the X and Y Chromosomes of Mammals," <i>Hum. Genet.</i> 61:85-90, Springer-Verlag (1982)				

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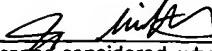
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	AR	g	Cai, J. et al., "Reconstitution of human replication factor C from its five subunits in baculovirus-infected insect cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:12896-12901, National Academy of Sciences (November 1996)				
	AS	g	Calenda, A., et al., "The meiosis-specific Xmr gene product is homologous to the lymphocyte Xlr protein and is a component of the XY body," <i>EMBO J.</i> 13:100-109, Oxford University Press (January 1994)				
	AT	g	Cerretani, M., et al., "A High-Throughput Radiometric Assay for Hepatitis C Virus NS3 Protease," <i>Anal. Biochem.</i> 266:192-197, Academic Press (January 1999)				

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<i>✓</i>	AR	10	Chen, D., et al., "Regulation of Transcription by a Protein Methyltransferase," <i>Science</i> 284:2174-2177, American Association for the Advancement of Science (June 1999)				
<i>✓</i>	AS	10	Ciosk, R., et al., "An ESP1/PDS1 Complex Regulates Loss of Sister Chromatid Cohesion at the Metaphase to Anaphase Transition in Yeast," <i>Cell</i> 93:1067-1076, Cell Press (June 1998)				
<i>✓</i>	AT	10	Clark, D.A., et al., "Protease Inhibitors Suppress In Vitro Growth of Human Small Cell Lung Cancer," <i>Peptides</i> 14:1021-1028, Pergamon Press, Ltd. (1993)				

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	AR	11	Cléard, F. et al., "SU(VAR) 3-7, a <i>Drosophila</i> heterochromatin-associated protein and companion of HP1 in the genomic silencing of position-effect variegation," <i>The EMBO Journal</i> 16:5280-5288, Oxford University Press (September 1997)					
	AS	11	Cobb, J., et al., "Meiotic events at the centromeric heterochromatin: histone H3 phosphorylation, topoisomerase IIα localization and chromosome condensation," <i>Chromosoma</i> 108:412-425, Springer-Verlag (December 1999)					
	AT	11	Cohen-Fix, O. et al., "Anaphase initiation in <i>Saccharomyces cerevisiae</i> is controlled by the APC-dependent degradation of the anaphase inhibitor Pds1p," <i>Genes & Dev.</i> 10:3081-3093, Cold Spring Harbor Laboratory Press (December 1996)					

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<i>✓</i>	AR	12	Cortez, D. and Elledge, S.J., "Conducting the mitotic symphony," <i>Nature</i> 406:354-356, Nature Publishing Group (July 2000)			
<i>✓</i>	AS	12	Csink, A. and Henikoff, S., "Genetic modification of heterochromatic association and nuclear organization in <i>Drosophila</i> ," <i>Nature</i> 381:529-531, Nature Publishing Group (June 1996)			
<i>✓</i>	AT	12	Cutts, S.M., et al., "Defective chromosome segregation, microtubule bundling and nuclear bridging in inner centromere protein gene (<i>Incep</i> n)-disrupted mice," <i>Hum. Mol. Genet.</i> 8:1145-1155, Oxford University Press (July 1999)			

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<i>✓</i>	AR	13	Czvitkovich, S., et al., "Over-expression of the SUV39H1 histone methyltransferase induces altered proliferation and differentiation in transgenic mice," <i>Mech. Dev.</i> 107:141-153, Elsevier Science Ireland Ltd. (September 2001)				
<i>✓</i>	AS	13	DeCamillis, M., et al., "The polyhomeotic gene of <i>Drosophila</i> encodes a chromatin protein that shares polytene chromosome-binding sites with <i>Polycomb</i> ," <i>Genes & Dev.</i> 6:223-232, Cold Spring Harbor Laboratory Press (1992)				
<i>✓</i>	AT	13	Dernburg, A.F., et al., "Perturbation of Nuclear Architecture by Long-Distance Chromosome Interactions," <i>Cell</i> 85:745-759, Cell Press (May 1996)				

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		FILING DATE February 9, 2004	ART UNIT 1651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	14	Dernburg, A.F., et al., "Direct Evidence of a Role for Heterochromatin in Meiotic Chromosome Segregation," <i>Cell</i> 86:135-146, Cell Press (July 1996)				
	AS	14	De Robertis, F. et al., "The histone deacetylase RPD3 counteracts genomic silencing in <i>Drosophila</i> and yeast," <i>Nature</i> 384:589-591, Nature Publishing Group (December 1996)				
	AT	14	de Vries, S.S., et al., "Mouse MutS-like protein Msh5 is required for proper chromosome synapsis in male and female meiosis," <i>Genes & Dev.</i> 13:523-531, Cold Spring Harbor Laboratory Press (March 1999)				

EXAMINER		DATE CONSIDERED	9/6/06
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	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	15	Dominguez, A., et al., "hpttg, a human homologue of rat pttg, is overexpressed in hematopoietic neoplasms. Evidence for a transcriptional activation function of hPTTG," <i>Oncogene</i> 17:2187-2193, Nature Publishing Group (October 1998)				
<i>✓</i>	AS	15	Dougherty, W., et al., "Molecular Genetic Analysis of a Plant Virus Polyprotein Cleavage Site: A Model," <i>Virology</i> 171:356-364, Academic Press (1989)				
<i>N</i>	AT	15	Dugaiczyk, A., et al., "Cloning and Sequencing of a Deoxyribonucleic Acid Copy of Glyceraldehyde-3-phosphate Dehydrogenase Messenger Ribonucleic Acid Isolated from Chicken Muscle," <i>Biochemistry</i> 22:1605-1613, American Chemical Society (1983)				

EXAMINER	<i>J. Smith</i>	DATE CONSIDERED	<i>9/6/06</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	Eissenberg, J.C., et al., "The Heterochromatin-Associated Protein HP-1 Is an Essential Protein in Drosophila With Dosage-Dependent Effects on Position-Effect Variegation," <i>Genetics</i> 131:345-352, Genetics Society of America (1992)
	AS	16	Ekwall, K., et al., "Mutations in the fission yeast silencing factors <i>clr4+</i> and <i>rik1+</i> disrupt the localisation of the chromo domain protein Swi6p and impair centromere function," <i>J. Cell Sci.</i> 109:2637-2648, The Company of Biologists Limited (November 1996)
	AT	16	Ekwall, K., et al., "Transient Inhibition of Histone Deacetylation Alters the Structural and Functional Imprint at Fission Yeast Centromeres," <i>Cell</i> 91:1021-1032, Cell Press (December 1997)

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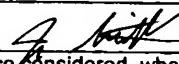
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	17	Elbashir, S.M., et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> 411:494-498, Nature Publishing Company (May 2001)				
<i>✓</i>	AS	17	Epstein, C.B., and Cross, F.R. "CLB5: a novel B cyclin from budding yeast with a role in S phase," <i>Genes & Dev.</i> 6:1695-1706, Cold Spring Harbor Laboratory Press (1992)				
<i>✓</i>	AT	17	Faleiro, L., et al., "Multiple species of CPP32 and Mch2 are the major active caspases present in apoptotic cells," <i>EMBO J.</i> 16:2271-2281, Oxford University Press (May 1997)				
EXAMINER	<i>J. Miller</i>				DATE CONSIDERED <i>9/6/06</i>		
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	18	Foon, K.A., and Gale, R.P. "Chronic Lymphoid Leukemias," in: <i>Blood: Principles and Practice of Hematology</i> , Handin, R.I., et al., eds., J.B. Lippincott Company, Philadelphia, PA, pp. 783-811 (January 1995)				
	AS	18	Friedman, L.S., et al., "The Search for BRCA1," <i>Cancer Res.</i> 54:6374-6382, American Association for Cancer Research (December 1994)				
	AT	18	Friedman, L.S., et al., "22 Genes from Chromosome 17q21: Cloning, Sequencing, and Characterization of Mutations in Breast Cancer Families and Tumors," <i>Genomics</i> 25:256-263, Academic Press (January 1995)				

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	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	19	Funabiki, H., et al., "Cut2 proteolysis required for sister-chromatid separation in fission yeast," <i>Nature</i> 381:438-441, Nature Publishing Company (May 1996)				
	AS	19	Garzino, V., et al., "Cell lineage-specific expression of <i>modulo</i> , a dose-dependent modifier of variegation in <i>Drosophila</i> ," <i>EMBO J.</i> 11:4471-4479, Oxford University Press (1992)				
	AT	19	Gentz, R., et al., "Bioassay for trans-activation using purified human immunodeficiency virus tat-encoded protein: Trans-activation requires mRNA synthesis," <i>Proc. Natl. Acad. Sci. USA</i> 86:821-824, National Academy of Sciences (1989)				

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	20	Geraghty, M.T., et al., "The Isolation of cDNAs from OATL1 at Xp11.2 Using a 480-kb YAC," <i>Genomics</i> 16:440-446, Academic Press, Inc. (1993)				
<i>✓</i>	AS	20	Gershkovich, A.A. and Kholodovych, V.V., "Fluorogenic substrates for proteases based on intramolecular fluorescence energy transfer (IFETS)," <i>J. Biochem. Biophys. Methods</i> 33:135-162, Elsevier Science B.V. (December 1996)				
<i>✓</i>	AT	20	Gibbons, R.J., et al., "Mutations in a Putative Global Transcriptional Regulator Cause X-Linked Mental Retardation with α-Thalassemia (ATR-X Syndrome)," <i>Cell</i> 80:837-845, Cell Press (March 1995)				

EXAMINER	<i>✓</i> <i>MW</i>	DATE CONSIDERED	<i>9/6/06</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	21	Gietz, R.D. and Sugino, A., "New yeast- <i>Escherichia coli</i> shuttle vectors constructed with in vitro mutagenized yeast genes lacking six-base pair restriction sites," <i>Gene</i> 74:527-534, Elsevier Science Publishers B.V. (1988)				
	AS	21	Gmachl, M., et al., "The RING-H2 finger protein APC11 and the E2 enzyme UBC4 are sufficient to ubiquitinate substrates of the anaphase-promoting complex," <i>Proc. Natl. Acad. Sci. USA</i> 97:8973-8978, National Academy of Sciences (August 2000)				
	AT	21	Gray, N.M., et al., "Discovery and Analysis of a Series of C ₂ -Symmetric HIV-1 Proteinase Inhibitors Derived from Penicillin," <i>Anal. Biochem.</i> 216:89-96, Academic Press (January 1994)				

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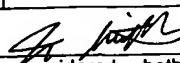
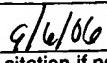
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>22</u>	Graziano, R.F., et al., "Construction and Characterization of a Humanized Anti-y-Ig Receptor Type I (FcγRI) Monoclonal Antibody," J. Immunol. 155: 4996-5002, American Association of Immunologists (November 1995)				
	AS	<u>22</u>	Griffin, D.K., et al., "Sex Ratio in Normal and Disomic Sperm: Evidence That the Extra Chromosome 21 Preferentially Segregates with Y Chromosome," Am. J. Hum. Genet. 59:1108-1113, The University of Chicago Press (November 1996)				
	AT	<u>22</u>	Grunstein, M., "Yeast Heterochromatin: Regulation of Its Assembly and Inheritance by Histones," Cell 93:325-328, Cell Press (May 1998)				
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	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	23	Gu, Y., et al., "The t(4;11) Chromosome Translocation of Human Acute Leukemias Fuses the ALL-1 Gene, Related to Drosophila <i>trithorax</i> , to the AF-4 Gene," <i>Cell</i> 71:701-708, Cell Press (1992)				
	AS	23	Handel, M.A. and Hunt, P.A., "Sex-Chromosome Pairing and Activity during Mammalian Meiosis," <i>Bioessays</i> 14:817-22, John Wiley and Sons, Inc. (1992)				
	AT	23	Hauf, S., et al., "Cohesion Cleavage by Separase Required for Anaphase and Cytokinesis in Human Cells," <i>Science</i> 293:1320-1323, The American Association for the Advancement of Science (August 2001)				

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	AR	24	Haupt, Y., et al., "Novel Zinc Finger Gene Implicated as myc Collaborator by Retrovirally Accelerated Lymphomagenesis in Eu-myc Transgenic Mice," <i>Cell</i> 65:753-763, Cell Press (1991)				
	AS	24	Hawley, R.S., et al., "There are Two Mechanisms of Achiasmate Segregation in <i>Drosophila</i> Females, One of Which Requires Heterochromatic Homology," <i>Dev. Genet.</i> 13:440-467, Wiley-Liss, Inc. (1993)				
	AT	24	Hayden, J.H., et al., "Kinetochores Capture Astral Microtubules During Chromosome Attachment to the Mitotic Spindle: Direct Visualization in Live Newt Lung Cells," <i>J. Cell Biol.</i> 111:1039-1045, The Rockefeller University Press (1990)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	25	Hendzel, M.J., et al., "Mitosis-specific phosphorylation of histone H3 initiates primarily within pericentromeric heterochromatin during G2 and spreads in an ordered fashion coincident with mitotic chromosome condensation," <i>Chromosoma</i> 106:348-360, Springer-Verlag (November 1997)				
	AS	25	Henikoff, S., "Position-effect Variegation in <i>Drosophila</i> : Recent Progress," in <i>Epigenetic Mechanisms of Gene Regulation</i> , Russo, V.E.A., et al., eds., Cold Spring Harbor Laboratory Press, Plainview, New York, pp. 319-334 (December 1996)				
	AT	25	Hobert, O., et al., "Interaction of Vav with ENX-1; a Putative Transcriptional Regulator of Homeobox Gene Expression," <i>Mol. Cell. Biol.</i> 16:3066-3073, American Society for Microbiology (June 1996)				

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	AR	<u>26</u>	Hsu, J.Y., <i>et al.</i> , "Mitotic Phosphorylation of Histone H3 is Governed by Ipl1/aurora Kinase and Glc7/PP1 Phosphatase in Budding Yeast and Nematodes," <i>Cell</i> 102:279-291, Cell Press (August 2000)			
	AS	<u>26</u>	Ivanova, A.V., <i>et al.</i> , "The chromo and SET domains of the Clr4 protein are essential for silencing in fission yeast," <i>Nat. Genet.</i> 19:192-195, Nature Publishing Company (June 1998)			
	AT	<u>26</u>	Jacobson, S. and Pillus, L., "Modifying chromatin and concepts of cancer," <i>Curr. Opin. Genet. Dev.</i> 9:175-184, Current Biology Publications (April 1999)			

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	AP2						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	27	Jenuwein, T., et al., "SET domain proteins modulate chromatin domains in eu- and heterochromatin," <i>Cell Mol. Life Sci.</i> 54:80-93, Birkhäuser Verlag (January 1998)				
	AS	27	Jenuwein, T., "Re-SET-ting heterochromatin by histone methyltransferases," <i>Trends Cell Biol.</i> 11:266-273, Elsevier Science Ltd. (June 2001)				
	AT	27	Jolley, M.E., "Fluorescence Polarization Assays for the Detection of Proteases and Their Inhibitors," <i>J. Biomol. Scr.</i> 1:33-38, Mary Ann Liebert, Inc. (Spring 1996)				

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		ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302
FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Jenuwein et al.	
		FILING DATE February 9, 2004	ART UNIT 1651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	28	Jones, D.O., et al., "Mammalian chromodomain proteins: their role in genome organisation and expression," <i>Bioessays</i> 22:124-137, John Wiley and Sons, Inc. (February 2000)				
	AS	28	Jones, R.S., and Gelbart, W.M., "The <i>Drosophila</i> Polycomb-Group Gene <i>Enhancer of zeste</i> Contains a Region with Sequence Similarity to <i>trithorax</i> ," <i>Mol. Cell Biol.</i> 13:6357-6366, American Society for Microbiology (1993)				
	AT	28	Kaitna, S., et al., "Incenp and an Aurora-like kinase form a complex essential for chromosome segregation and efficient completion of cytokinesis," <i>Curr. Biol.</i> 10:1172-1181, Elsevier Science Ltd. (September 2000)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>29</u>	Karpen, G. H., et al., "Centric Heterochromatin and the Efficiency of Achiasmate Disjunction in Drosophila Female Meiosis," <i>Science</i> 273:118-122, American Association for the Advancement of Science (July 1996)				
	AS	<u>29</u>	Karpen, G.H. and Allshire, R.C., "The case for epigenetic effects on centromere identity and function," <i>Trends Genet.</i> 13:489-496, Elsevier Science Ltd. (December 1997)				
	AT	<u>29</u>	Kerrebrock, A.W., et al., "Mei-S332, a Drosophila Protein Required for Sister-Chromatid Cohesion, Can Localize to Meiotic Centromere Regions," <i>Cell</i> 83:247-256, Cell Press (October 1995)				

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	30	Klein, F., et al., "A Central Role for Cohesins in Sister Chromatid Cohesion, Formation of Axial Elements, and Recombination during Yeast Meiosis," <i>Cell</i> 98:91-103, Cell Press (July 1999)				
	AS	30	Klein, R.R. and Houtz, R.L., "Cloning and developmental expression of pea ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit N-methyltransferase," <i>Plant Mol. Biol.</i> 27:249-261, Kluwer Academic Publishers (January 1995)				
	AT	30	Köhler, G. and Milstein, C., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, Nature Publishing Company (1975)				

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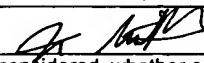
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>31</u>	Koonin, E.V., et al., "The chromo superfamily: new members, duplication of the chromo domain and possible role in delivering transcription regulators to chromatin," <i>Nucl. Acids Res.</i> 23:4229-4233, Oxford University Press (November 1995)				
	AS	<u>31</u>	Kot, M.C. and Handel, M.A. "Spermatogenesis in XO,Sxr Mice: Role of the Y Chromosome," <i>J. Exp. Zool.</i> 256:92-105, Wiley-Liss, Inc. (1990)				
	AT	<u>31</u>	Kramer, E.R., et al., "Activation of the human anaphase-promoting complex by proteins of the CDC20/Fizzy family," <i>Curr. Biol.</i> 8:1207-1210, Current Biology Ltd. (October 1998)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>32</u>	Lachner, M., et al., "Methylation of histone H3 lysine 9 creates a binding site for HP1 proteins," <i>Nature</i> 410:116-120, Nature Publishing Group (March 2001)				
	AS	<u>32</u>	Laible, G., et al., "Mammalian homologues of the Polycomb-group gene Enhancer of zeste mediate gene silencing in <i>Drosophila</i> heterochromatin and at <i>S. cerevisiae</i> telomeres," <i>EMBO J.</i> 16:3219-3232, Oxford University Press (June 1997)				
	AT	<u>32</u>	Lamb, D.J. and Niederberger, C.S. "Animal Models that Mimic Human Male Reproductive Defects," <i>Urol. Clin. North Am.</i> 21:377-387, W.B. Saunders Co. (August 1994)				
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	33	Lammers, J.H.M., et al., "The Gene Encoding a Major Component of the Lateral Elements of Synaptonemal Complexes of the Rat Is Related to X-Linked Lymphocyte-Regulated Genes," <i>Mol. Cell. Biol.</i> 14:1137-1146, American Society for Microbiology (February 1994)				
	AS	33	Lammers, J.H.M., et al., "A change in the phosphorylation pattern of the 30,000-33,000 M _r synaptonemal complex proteins of the rat between early and mid-pachytene," <i>Chromosoma</i> 104:154-163, Springer-Verlag (November 1995)				
	AT	33	Larsson, J., et al., "Mutations in the <i>Drosophila melanogaster</i> Gene Encoding S-adenosylmethionine Suppress Position-Effect Variegation," <i>Genetics</i> 143:887-896, The Genetics Society of America (June 1996)				
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	34	Lee, I.A., et al., "Cloning and Expression of Human cDNA Encoding Human Homologue of Pituitary Tumor Transforming Gene," <i>Biochem. Mol. Biol. Intl.</i> 47:891-897, Taylor & Francis (May 1999)				
	AS	34	Lengauer, C., et al., "Genetic instability in colorectal cancers," <i>Nature</i> 386:623-627, Nature Publishing Group (April 1997)				
	AT	34	Levine, L.M., et al., "Measurement of Specific Protease Activity Utilizing Fluorescence Polarization," <i>Anal. Biochem.</i> 247:83-88, Academic Press (April 1997)				

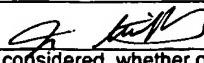
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	AR	35	Lewis, J.D. and Tollervey, D., "Like Attracts Like: Getting RNA Processing Together in the Nucleus," <i>Science</i> 288:1385-1389, The American Association for the Advancement of Science (May 2000)				
	AS	35	Liang, C. and Stillman, B., "Persistent initiation of DNA replication and chromatin-bound MCM proteins during the cell cycle in cdc6 mutants," <i>Genes & Dev.</i> 11:3375-3386, Cold Spring Harbor Laboratory Press (December 1997)				
	AT	35	Lim H.H. et al., "Cdc20 is essential for the cyclosome-mediated proteolysis of both Pds1 and Clb2 during M phase in budding yeast," <i>Curr. Biol.</i> 8:231-234, Current Biology Ltd. (February 1998)				

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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	36	Locke, J., et al., "Dosage-Dependent Modifiers of Position Effect Variegation in Drosophila and a Mass Action Model That Explains Their Effect," <i>Genetics</i> 120:181-198, Genetics Society of America (1988)				
	AS	36	Losada, A., et al., "Identification of Xenopus SMC protein complexes required for sister chromatid cohesion," <i>Genes & Dev.</i> 12:1986-1997, Cold Spring Harbor Laboratory Press (July 1998)				
	AT	36	Martzen, M.R., et al., "A Biochemical Genomics Approach for Identifying Genes by the Activity of Their Products," <i>Science</i> 286:1153-1155, American Association for the Advancement of Science (November 1999)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	<u>37</u>	Matayoshi, E.D., et al., "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247:954-958, The American Association for the Advancement of Science (1990)				
<i>✓</i>	AS	<u>37</u>	Matsuda, Y., et al., "Genetic basis of X-Y chromosome dissociation and male sterility in interspecific hybrids," <i>Proc. Natl. Acad. Sci. USA</i> 88:4850-4854, National Academy of Sciences (1991)				
<i>✓</i>	AT	<u>37</u>	McGrew, J.T., et al., "Requirement for <i>ESP1</i> in the Nuclear Division of <i>Saccharomyces cerevisiae</i> ," <i>Mol. Biol. Cell</i> 3:1443-1454, American Society for Cell Biology (1992)				
EXAMINER <i>J. McGrew</i>					DATE CONSIDERED <u>9/6/04</u>		
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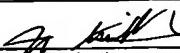
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	AR	38	McKay, M.J., et al., "Sequence Conservation of the rad21 Schizosaccharomyces pombe DNA Double-Strand Break Repair Gene in Human and Mouse," <i>Genomics</i> 36:305-315, Academic Press, Inc. (September 1996)				
	AS	38	Meistrich, M.L. and Brock, W.A., "Proteins of the Meiotic Cell Nucleus," In <i>Meiosis</i> , Moens, P.B., ed., Academic Press, New York, N.Y., pp.333-353 (1987)				
	AT	38	Melcher, M., et al., "Structure-Function Analysis of SUV39H1 Reveals a Dominant Role in Heterochromatin Organization, Chromosome Segregation, and Mitotic Progression," <i>Mol. Cell. Biol.</i> 20:3728-3741, American Society for Microbiology (May 2000)				

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	AR	39	Merdes, A. and De Mey, J., "The mechanism of kinetochore-spindle attachment and polewards movement analyzed in PtK ₂ cells at the prophase-prometaphase transition," <i>Eur. J. Cell Biol.</i> 53:313-325, Wissenschaftliche verlagsgesellschaft mbH (1990)				
	AS	39	Messmer, S., et al., "Analysis of the functional role of the Polycomb chromo domain in <i>Drosophila melanogaster</i> ," <i>Genes & Dev.</i> 6:1241-1254, Cold Spring Harbor Laboratory Press (1992)				
	AT	39	Michaelis, C., et al., "Cohesins: Chromosomal Proteins that Prevent Premature Separation of Sister Chromatids," <i>Cell</i> 91:35-45, Cell Press (October 1997)				
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	AP						Yes

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<i>AR</i>	AR	40	Milner, C.M., and Campbell, R.D., "The G9a gene in the human major histocompatibility complex encodes a novel protein containing ankyrin-like repeats," <i>Biochem. J.</i> 290:811-818, Biochemical Society/Portland Press (1993)				
<i>AS</i>	AS	40	Miyazaki, W.Y. and Orr-Weaver, T.L., "Sister-Chromatid Cohesion in Mitosis and Meiosis," <i>Annu. Rev. Genet.</i> 28:167-187, Annual Reviews (December 1994)				
<i>AT</i>	AT	40	Moens, P.B., "Histones H1 and H4 of surface-spread meiotic chromosomes," <i>Chromosoma</i> 104:169-174, Springer-Verlag (November 1995)				

EXAMINER	<i>J. Reid</i>	DATE CONSIDERED
		9/6/06

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	AL						Yes
	AM						No
	AN						Yes
	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>41</u>	Moore, D.P., et al., "The Cohesion Protein MEI-S332 Localizes to Condensed Meiotic and Mitotic Centromeres until Sister Chromatids Separate," <i>J. Cell. Biol.</i> 140:1003-1012, The Rockefeller University Press (March 1998)
	AS	<u>41</u>	Motzkus, D., et al., "M31, a murine homolog of Drosophila HP1, is concentrated in the XY body during spermatogenesis," <i>Cytogenet. Cell Genet.</i> 86:83-88, S. Karger AG (October 1999)
	AT	<u>41</u>	Murray, A.W., "Cell Cycle Extracts," <i>Meth. Cell Biol.</i> 36:581-605, Academic Press, Inc. (1991)

EXAMINER		DATE CONSIDERED
		<u>9/6/06</u>
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		ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302
FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		FIRST NAMED INVENTOR Jenewein et al.	
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	AN						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	42	Murray, M.G., et al., "Inactivation of a yeast transactivator by the fused HIV-1 proteinase: a simple assay for inhibitors of the viral enzyme activity," Gene 134:123-128, Elsevier Science Publishers B.V. (1993)				
<i>✓</i>	AS	42	Nagase, T., et al., "Prediction of the Coding Sequences of Unidentified Human Genes. V. The Coding Sequences of 40 New Genes (KIAA0161-KIAA0200) Deduced by Analysis of cDNA Clones from Human Cell Line KG-1," DNA Res. 3:17-24, Kazusa DNA Research Institute and Universal Academy Press, Inc. (February 1996)				
<i>✓</i>	AT	42	Nakayama, J., et al., "Role of Histone H3 Lysine 9 Methylation in Epigenetic Control of Heterochromatin Assembly," Science 292:110-113, American Association for the Advancement of Science (April 2001)				
EXAMINER <i>J. Murray</i>					DATE CONSIDERED <i>9/6/06</i>		
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	43	Nasmyth, K., et al., "Splitting the Chromosome: Cutting the Ties That Bind Sister Chromatids," <i>Science</i> 288:1379-1384, The American Association for the Advancement of Science (May 2000)				
<i>✓</i>	AS	43	Neuberger, M.S., et al., "Recombinant antibodies possessing novel effector functions," <i>Nature</i> 312:604-608, Macmillan Magazines Ltd. (1984)				
<i>✓</i>	AT	43	Nicholson, D.W., et al., "Identification and inhibition of the ICE/CED-3 protease necessary for mammalian apoptosis," <i>Nature</i> 376:37-43, Nature Publishing Company (July 1995)				
EXAMINER <i>J. Hirsch</i>					DATE CONSIDERED <i>9/6/06</i>		
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	44	O'Carroll, D., et al., "Isolation and Characterization of Suv39h2, a Second Histone H3 Methyltransferase Gene That Displays Testis-Specific Expression," <i>Mol. Cell. Biol.</i> 20:9423-9433, American Society for Microbiology (December 2000)				
	AS	44	Offenberg, H.H., et al., "Tissue distribution of two major components of synaptonemal complexes of the rat," <i>Chromosoma</i> 101:83-91, Springer-Verlag (1991)				
	AT	44	Orlando V., and Paro, R., "Mapping Polycomb-Repressed Domains in the Bithorax Complex Using In Vivo Formaldehyde Cross-Linked Chromatin," <i>Cell</i> 75:1187-1198, Cell Press (1993)				

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
<i>✓</i>	AR	45	Pandita, T.K., et al., "Atm Inactivation Results in Aberrant Telomere Clustering during Meiotic Prophase," <i>Mol. Cell. Biol.</i> 19:5096-5105, American Society for Microbiology (July 1999)			
<i>✓</i>	AS	45	Pardue, M.L. and Gall, J.G., "Chromosomal Localization of Mouse Satellite DNA," <i>Science</i> 168:1356-1358, American Association for the Advancement of Science (1970)			
<i>✓</i>	AT	45	Park, I.K., et al., "Interrelationship Between Nuclear Histone Binding and Cell Proliferation," <i>Int. J. Biochem.</i> 20:183-187, Pergamon Press (1988)			

EXAMINER	<i>Jn kws</i>	DATE CONSIDERED	<i>9/6/04</i>
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	46	Paro, R. and Harte, P.J., "The Role of Polycomb Group and Trithorax Group Chromatin Complexes in the Maintenance of Determined Cell States," in <i>Epigenetic Mechanisms of Gene Regulation</i> , Russo, V.E.A., et al., eds., Cold Spring Harbor Laboratory Press, Plainview, N.Y., pp. 507-528 (December 1996)				
<i>✓</i>	AS	46	Paro, R. and Hogness, D.S. "The Polycomb protein shares a homologous domain with a heterochromatin-associated protein of <i>Drosophila</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 88:263-267, National Academy of Sciences (1991)				
<i>✓</i>	AT	46	Pehrson, J.R. and Fried, V.A., "MacroH2A, a Core Histone Containing a Large Nonhistone Region," <i>Science</i> 257:1398-1400, American Association for the Advancement of Science (1992)				

EXAMINER	<i>J. M. L.</i>	DATE CONSIDERED	<i>9/6/06</i>
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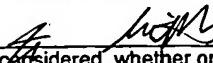
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	47	Peters, A.H.F.M., et al., "A drying-down technique for the spreading of mammalian meiocytes from the male and female germline," <i>Chromosome Res.</i> 5:66-68, Rapid Science Publishers (February 1997)
	AS	47	Peters, A.H.F.M., et al., "Meiosis in carriers of heteromorphic bivalents: sex differences and implications for male fertility," <i>Chromosome Res.</i> 5:313-324, Rapid Science Publishers (August 1997)
	AT	47	Peters, J.-M., "SCF and APC: the Yin and Yang of cell cycle regulated proteolysis," <i>Curr. Opin. Cell Biol.</i> 10:759-768, Current Biology Ltd. (December 1998)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	48	Platero, J.S., et al., "Functional analysis of the chromo domain HP1," EMBO J. 14:3977-3986, Oxford University Press (August 1995)				
	AS	48	Rastelli, L., et al., "Related chromosome binding sites for zeste, suppressors of zeste and Polycomb group proteins in Drosophila and their dependence on Enhancer of zeste function," EMBO J. 12:1513-1522, Oxford University Press (1993)				
	AT	48	Rea, S., et al., "Regulation of chromatin structure by site-specific histone H3 methyltransferases," Nature 406:593-599, Nature Publishing Company (August 2000)				
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	AO						No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<u>✓</u>	AR	<u>49</u>	Reuter G., and Spierer, P., "Position Effect Variegation and Chromatin Proteins," <i>BioEssays</i> 14:605-612, The Company of Biologists, Ltd. (1992)				
<u>✓</u>	AS	<u>49</u>	Rice, J.C. and Allis, C.D., "Histone methylation versus acetylation: new insights into epigenetic regulation," <i>Curr. Opin. Cell. Biol.</i> 13:263-273, Elsevier Science Ltd. (June 2001)				
<u>✓</u>	AT	<u>49</u>	Riechmann, L., et al., "Reshaping human antibodies for therapy," <i>Nature</i> 332: 323-327, Macmillan Magazines Ltd. (1988)				

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	<i>9/6/04</i>
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	AN						Yes
	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
✓	AR	50	Rieder, C.L. and Salmon, E.D., "The vertebrate cell kinetochore and its roles during mitosis," <i>Trends in Cell Biol.</i> 8:310-318, Elsevier Science Ltd. (August 1998)				
✓	AS	50	Sarubbi, E., et al., "A high throughput assay for inhibitors of HIV-1 protease. Screening of microbial metabolites," <i>FEBS</i> 279:265-269, Elsevier Science Publishers B.V. (1991)				
✓	AT	50	Sassone-Corsi, P., et al., "Requirement for Rsk-2 for Epidermal Growth Factor-Activated Phosphorylation of Histone H3," <i>Science</i> 285:886-891, American Association for the Advancement of Science (August 1999)				

EXAMINER	<i>J. M. K.</i>	DATE CONSIDERED	<i>9/6/00</i>
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	AP						Yes
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<i>✓</i>	AR	<u>51</u>	Scherthan, H., et al., "Centromere and Telomere Movements during Early Meiotic Prophase of Mouse and Man are Associated with the Onset of Chromosome Pairing," <i>J. Cell Biol.</i> 134:1109-1125, The Rockefeller University Press (September 1996)				
<i>✓</i>	AS	<u>51</u>	Schotta, G. and Reuter, G., "Controlled expression of tagged proteins in <i>Drosophila</i> using a new modular P-element vector system," <i>Mol. Gen. Genet.</i> 262:916-920, Springer-Verlag (January 2000)				
<i>✓</i>	AT	<u>51</u>	Singh, J., et al., "Lead Development: Validation and Application of High Throughput Screening for Determination of Pharmacokinetic Parameters for Enzyme Inhibitors," <i>Bioorg. Med. Chem.</i> 4:639-643, Pergamon Press (May 1996)				

EXAMINER	<i>SJ</i> <i>bkl</i>	DATE CONSIDERED	<i>9/6/03</i>
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	AP						Yes

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)								
<i>✓</i>	AR	52	Smouse, D. and Perrimon, N., "Genetic Dissection of a Complex Neurological Mutant, <i>polyhomeotic</i> , in <i>Drosophila</i> ," <i>Dev. Biol.</i> 139 :169-185, Academic Press (1990)					
<i>✓</i>	AS	52	Solari, A.J. "The Behavior of the XY Pair in Mammals," <i>Int. Rev. Cytol.</i> 38:273-317, Academic Press, Inc. (1974)					
<i>✓</i>	AT	52	Stassen, M.J., et al., "The <i>Drosophila trithorax</i> proteins contain a novel variant of the nuclear receptor type DNA binding domain and an ancient conserved motif found in other chromosomal proteins," <i>Mech. Dev.</i> 52:209-223, Elsevier Science Ireland Ltd. (August 1995)					
EXAMINER	<i>✓</i> <i>JM</i>						DATE CONSIDERED 9/6/06	
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	AP						Yes No

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<i>J</i>	AR	<u>53</u>	Stebbins, J. and Debouck, C., "A Microtiter Colorimetric Assay for the HIV-1 Protease," <i>Anal. Biochem.</i> 248:246-250, Academic Press (June 1997)				
<i>J</i>	AS	<u>53</u>	Strahl, B.D. and Allis, C.D., "The language of covalent histone modifications," <i>Nature</i> 403:41-45, Nature Publishing Group (January 2000)				
<i>J</i>	AT	<u>53</u>	Strahl, B.D., et al., "Methylation of histone H3 at lysine 4 is highly conserved and correlates with transcriptionally active nuclei in <i>Tetrahymena</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 96:14967-14972, National Academy of Sciences (December 1999)				

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	AP						Yes
							No
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	AR	54	Sullivan, K.F., et al., "Human CENP-A Contains a Histone H3 Related Histone Fold Domain That Is Required for Targeting to the Centromere," J. Cell Biol. 127:581-592, The Rockefeller University Press (1994)				
	AS	54	Tachibana, M., et al., "SET Domain-containing Protein, G9a, Is a Novel Lysine-preferring Mammalian Histone Methyltransferase with Hyperactivity and Specific Selectivity to Lysines 9 and 27 of Histone H3," J. Biol. Chem. 276:25309-25317, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)				
	AT	54	Taliani, M., et al., "A Continuous Assay of Hepatitis C Virus Protease Based on Resonance Energy Transfer Depsipeptide Substrates," Anal. Biochem. 240:60-67, Academic Press (August 1996)				
EXAMINER					DATE CONSIDERED <u>9/6/06</u>		
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			ATTY. DOCKET NO. 0652.1670002/JUK/JCI	APPLICATION NO. 10/773,302
FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>			FIRST NAMED INVENTOR Jenuwein et al.	
			FILING DATE February 9, 2004	ART UNIT 1651

U.S. PATENT DOCUMENTS							
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	AL						Yes
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	AN						Yes
	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	55	Tkachuk, D.C., et al., "Involvement of a Homolog of Drosophila Trithorax by 11q23 Chromosomal Translocations in Acute Leukemias," <i>Cell</i> 71:691-700, Cell Press (1992)				
<i>✓</i>	AS	55	Tschiersch, B., et al., "The protein encoded by the <i>Drosophila</i> position-effect variegation suppressor gene <i>Su(var)3-9</i> combines domains of antagonistic regulators of homeotic gene complexes," <i>EMBO J.</i> 13:3822-3831, Oxford University Press (August 1994)				
<i>✓</i>	AT	55	Turner, B.M., "Histone acetylation as an epigenetic determinant of long-term transcriptional competence," <i>Cell. Mol. Life Sci.</i> 54:21-31, Birkhäuser Verlag (January 1998)				

EXAMINER	<i>J. Miller</i>	DATE CONSIDERED	<i>9/6/04</i>
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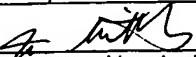
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	56	Turner, J.M.A., et al., "Analysis of male meiotic "sex body" proteins during XY female meiosis provides new insights into their functions," Chromosoma 109:426-432, Springer-Verlag (August 2000)				
	AS	56	Uhlmann, F. and Nasmyth, K., "Cohesion between sister chromatids must be established during DNA replication," Curr. Biol. 8:1095-1101, Current Biology Ltd. (September 1998)				
	AT	56	Uhlmann, F., et al., "Sister-chromatid separation at anaphase onset is promoted by cleavage of the cohesin subunit Scc1," Nature 400:37-42, Nature Publishing Company (July 1999)				
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	57	Uhlmann, F., et al., "Cleavage of Cohesin by the CD Clan Protease Separin Triggers Anaphase in Yeast," <i>Cell</i> 103:375-386, Cell Press (October 2000)				
	AS	57	Vigil, P. and Bustos-Obregon, E., "Alkylating Agents and Mouse Spermatogenesis: Effects of a Single Dose of Cyclophosphamide," <i>Andrologia</i> 17:276-282, Grosse-Verlag (1985)				
	AT	57	Waizenegger, I.C., "Two Distinct Pathways Remove Mammalian Cohesin from Chromosome Arms in Prophase and from Centromeres in Anaphase," <i>Cell</i> 103:399-410, Cell Press (October 2000)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	58	Wallrath, L.L., "Unfolding the mysteries of heterochromatin," <i>Curr. Opin. Genet. Dev.</i> 8:147-153, Current Biology Ltd. (April 1998)				
	AS	58	Wei, Y., et al., "Phosphorylation of Histone H3 Is Required for Proper Chromosome Condensation and Segregation," <i>Cell</i> 97:99-109, Cell Press (April 1999)				
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EXAMINER		DATE CONSIDERED	8/4/06
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<i>J</i>	AR	<u>59</u>	Wilson, I.A., et al., "The Structure of an Antigenic Determinant in a Protein," <i>Cell</i> 37: 767-778, Massachusetts Institute of Technology (1984)				
<i>J</i>	AS	<u>59</u>	Working, P.K., "Male Reproductive Toxicology: Comparison of the Human to Animal Models," <i>Environ. Health Perspect.</i> 77:37-44, U.S. Department of Health and Human Services (1988)				
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EXAMINER	<i>J. Karp</i>	DATE CONSIDERED	<i>9/6/04</i>
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	AR	60	Xu, X., et al., "Centrosome Amplification and a Defective G ₂ -M Cell Cycle Checkpoint Induce Genetic Instability in BRCA1 Exon 11 Isoform-Deficient Cells," Mol. Cell 3:389-395, Cell Press (March 1999)				
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	AT	60	Yoshida, K., et al., "The Mouse RecA-like Gene Dmc1 is Required for Homologous Chromosome Synapsis during Meiosis," Mol. Cell 1:707-718, Cell Press (April 1998)				

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	AR	<u>61</u>	Yuan, L., et al., "The Murine SCP3 Gene is Required for Synaptonemal Complex Assembly, Chromosome Synapsis, and Male Fertility," <i>Mol. Cell</i> 5:73-83, Cell Press (January 2000)				
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	AT	<u>61</u>	Zheng, Q., et al., "Expression, Purification, and Characterization of Recombinant Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase Large Subunit N ^f - Methyltransferase," <i>Protein Express. Purif.</i> 14:104-112, Academic Press (October 1998)				

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	AR	62	Zimmerman, M., et al., "Sensitive Assays for Trypsin, Elastase, and Chymotrypsin Using New Fluorogenic Substrates," <i>Anal. Biochem.</i> 78:47-51, Academic Press, Inc. (1977)				
	AS	62	Zou, H. et al., "Identification of a Vertebrate Sister-Chromatid Separation Inhibitor Involved in Transformation and Tumorigenesis," <i>Science</i> 285:418-422, American Association for the Advancement of Science (July 1999)				
	AT	62	GenBank Report for Accession No. AAC29137, from Ying, Z. et al. (last updated December 1999)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	63	GenBank Report for Accession No. AAD39289, from Federspiel, N.A. et al. (last updated October 2002)				
	AS	63	GenBank Report for Accession No. D31891, from Nomura, N., et al. (last updated January 2004)				
	AT	63	GenBank Report for Accession No. D79987, from Nagase T., et al. (last updated January 2004)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
<i>✓</i>	AR	<u>64</u>	GenBank Report for Accession No. L08238, from Geraghty, M.T. (last updated January 1995)			
<i>✓</i>	AS	<u>64</u>	GenBank Report for Accession No. U18003, from Ostermeyer, E.A. (last updated August 1998)			
<i>✓</i>	AT	<u>64</u>	GenBank Report for Accession No. U52965, from Hobert, O., et al. (last updated July 1996)			

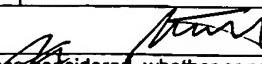
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	65	Copy of Co-Pending Non-Provisional U.S. Patent Application No. 09/500,991, Uhlmann et al., filed February 15, 2000				
	AS	65	International Search Report for International Patent Application No. PCT/EP00/01183, mailed June 29, 2000				
	AT	65	Dialog File 351, Accession No. 1996-518672, WPI English language abstract for document DE 195 16 776 (Document AM1)				

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>✓</i>	AR	66	Parisi, S., et al., "Rec8p, a Meiotic Recombination and Sister Chromatid Cohesion Phosphoprotein of the Rad21p Family Conserved from Fission Yeast to Humans," <i>Molec. Cell. Biol.</i> 19:3515-3528, American Society for Microbiology (May 1999)				
	AS						
	AT						

EXAMINER	<i>✓</i> <i>John Smith</i>	DATE CONSIDERED	9/6/04
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